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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,500	09/12/2000	Aaron D. Hanson	2452-16	6594

23117 7590 06/21/2005

NIXON & VANDERHYE, PC  
901 NORTH GLEBE ROAD, 11TH FLOOR  
ARLINGTON, VA 22203

EXAMINER

PRIETO, BEATRIZ

ART UNIT PAPER NUMBER

2142

DATE MAILED: 06/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/660,500

Applicant(s)

HANSON ET AL.

Examiner

Prieto Beatriz

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2004.  
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 21-27 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 21-27 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 13 September 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date (See attached)  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_

***DETAILED ACTION***

1. This communication is in response to Applicant's communication filed 12/22/04 in response to an Election/Restriction requirement. Claims 21-27 remain pending.
2. Applicant's election without traverse of Group II consisting of claim 21-27 in the reply above mentioned is acknowledged.
3. Claim 24 is objected to due to the following minor informalities: "said mobile computing device" lacks antecedent basis. Correction is required. Applicant is urged to review claims for any further or similar inconsistencies.

**Claim Rejections - 35 USC § 103**

4. The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,572,528 Shuen.

Regarding claim 21, Shuen teaches substantial features of the invention, including

establishing communications between a node (340/308/310) and a mobile system (320/330) over a first network (300) (col 16/lines 4-15, 24-22);

providing the mobile system over the first network during said established connection, data identifying the node on a second network to which all data directed to the mobile system is directed (col 17/lines 60-col 18/lines 6, col 16/line 60-col 17/line 17);

using said data to establish communication between the mobile system and the node on the second network (col 8/lines 14-22, col 9/lines 37-49, using said data to access the node col 9/lines 16-21);

although does not explicitly used the term disjoint networks when describing separate individual LAN (314) and internetwork (302)(col 12/lines 4-9), the first network (317E) and the second network (317D) comprise disjoint network, i.e. separate network, as shown on Fig. 1, wherein the second network may include an internetwork (302) (col 20/lines 16-24)

It would have been obvious to one ordinary skilled in the art at the time the invention was made, would recognized separate LAN (317E & 317D) as “disjoint” networks, and an internetwork, i.e. networks interconnected by intermediate devices typically, by routers or gateways interconnect different disjoint network, as show in figure 2. One ordinary skilled in the art would recognize that this feature is inherent in the references teachings.

Claims 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shuen in view of U.S. Patent No. 6,081,715 La Porta et. al. (La Porta hereafter)

Regarding claim 22, although Shuen is silent regarding authentication,

La Porta discusses where in order to establish communication or a connection between a mobile system and a node over a network, authentication functions are performed (col 1/lines 15-23). It would have been obvious to one ordinary skilled in the art at the time the invention was made given the above suggestion of LaPorta, that for handling any services to which a mobile system may have subscribed, authenticating the user as well as the mobile device to determine if these are entitle to requested service, one ordinary skilled would be motivated to ensure that the service provider obtain whatever revenues are associated with the service they provide.

Regarding claim 23, sending comprising sending data (called “distributed interface”) to the mobile system over the first network (Shuen: col 16/lines 40-59).

Regarding claim 24, said mobile system is attached to said network (Shuen: col 16/lines 9-15).

Regarding claim 25, communicates with a point of attachment (Shuen: col 16/lines 53-59).

Regarding claim 26, this claims includes limitation substantially the same as claim 21, same rationale of rejection is applicable, further limitation includes, re-establishing communication with said node with further segments, e.g. hops (Shuen: col 4/lines 4-7).

Regarding claim 27, this claim is substantially the same as claim 23, same rationale of rejection is applicable.

**Citation of Pertinent Art:**

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Copies of Non-Patent Literature documents cited will be provided as set forth in MPEP§ 707.05(a):

US 6,047,071

Shah teaches a Roaming List provided to a mobile station including one or more home (non-roaming) identifier pairs, i.e. a network identification (NID) and system identification (SID), and a Number Assignment Modules (NAMs) are downloaded into the memory of the mobile unit from the base station. The NAMs specify parameters, which control wireless network usage, such as roaming information, or "Preferred Roaming List".

US 5,953,665

Aziz teaches wherein a control channel is available for each mobile station operating within the system for placing and receive calls and to operate correctly in the system. As the mobile station then roams about the coverage area of the cellular system, it must be able to locate and tune to a control channel of the cells into which it roams. Control channel selection while roaming is identified in a "neighbor cell list", which identifies the control channels of neighboring cells, is transmit on the control channel of each cell at certain predetermined intervals. As the mobile station roams, it measures each neighbor cell control channel in the list at predetermined times, and tunes to one of the neighbor cell list control channels.

US 6,195,705

Teaches that when a Mobile Node is removed from its home base network segment 12 and roams a remote network segment 14. The nodes on network segment 14 communicate with the internet through a router which doubles as Foreign Agent 10. Mobile Node 6 may identify Foreign Agent 10 through various solicitations and advertisements, which form part of the Mobile IP protocol. When Mobile Node engages with network segment, Foreign Agent 10 relays a registration request to Home Agent 8 (as indicated by the dotted line "Registration"). Foreign Agent to continue service to roaming Mobile Nodes.

US 5,594,731

Teaches that when a node roams, it may roam out of range from all APs in its AP table. The wireless node is then disconnected from the wired LAN until it comes within range of another AP and makes a point of attachment therewith when the node hears the AP's beacon or a regular transmission). The AP maintains a BSA table, of the nodes detected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prieto, B. whose telephone number is (571) 272-3902. The Examiner can normally be reached on Monday-Friday from 6:00 to 3:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Andrew T. Caldwell can be reached at (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800/4700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system, status information for published application may be obtained from either Private or Public PAIR, for unpublished application Private PAIR only (see <http://pair-direct.uspto.gov> or the Electronic Business Center at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

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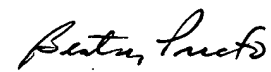
or faxed to the Central Fax Office:

(703) 872-9306, for Official communications and entry;

Or telephone:

(703) 306-5631 for TC 2100 Customer Service Office.

B. Prieto  
TC 2100  
Primary Examiner  
June 19, 2005

  
**BEATRIZ PRIETO**  
**PRIMARY EXAMINER**